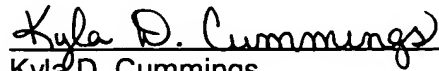




If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/WEAT/0528.P1/WBP.

Respectfully submitted,



Kyla D. Cummings

Registration No. 50,682

MOSER, PATTERSON & SHERIDAN, L.L.P.

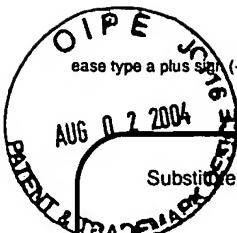
3040 Post Oak Blvd. Suite 1500

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Attorney for Applicant



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PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1

of 29

Application Number

10/735,918

Filing Date

December 15, 2003

First Named Inventor

Vail III

Group Art Unit

3672

Examiner Name

Unknown

Attorney Docket Number

WEAT/0528.P1

Submission Date

July 30, 2004

**U.S. PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
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|                    |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |  |   |                |
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|                    | B5                    | EP 0 462 618  | 12/27/1991                     | Karlsson   |   |                |

Examiner

Date Considered

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 2

29

|                        |                   |
|------------------------|-------------------|
| Application Number     | 10/735,918        |
| Filing Date            | December 15, 2003 |
| First Named Inventor   | Vail III          |
| Group Art Unit         | 3672              |
| Examiner Name          | Unknown           |
| Attorney Docket Number | WEAT/0528.P1      |
| Submission Date        | July 30, 2004     |

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|                    |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |  |   |                |
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|                    | B9                    | GB 2 335 217  | 09/15/1999                     | Desai  |   |                |

Examiner

Date Considered

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 3

of 29

Application Number 10/735,918

Filing Date December 15, 2003

First Named Inventor Vail III

Group Art Unit 3672

Examiner Name Unknown

Attorney Docket Number WEAT/0528.P1

Submission Date July 30, 2004

**U.S. PATENT DOCUMENTS**

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|                    | A46                   | US-4848469                               | 07/18/1989                     | Baugh et al.                                       |   |
|                    | A47                   | US-4836299                               | 06/06/1989                     | Bodine   |   |
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|                    | A49                   | US-4699224                               | 10/13/1987                     | Burton   |   |
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|                    | A52                   | US-4604818                               | 08/12/1996                     | Inoue  |   |
|                    | A53                   | US4595058                                | 06/17/1986                     | Nations  |   |
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Examiner

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| Substitute for form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |       |                 | Application Number     | 10/735,918        |
|  |       |                 | Filing Date            | December 15, 2003 |
|  |       |                 | First Named Inventor   | Vail III          |
|  |       |                 | Group Art Unit         | 3672              |
|  |       |                 | Examiner Name          | Unknown           |
|  |       |                 | Attorney Docket Number | WEAT/0528.P1      |
| Sheet 4  | of 29 | Submission Date | July 30, 2004          |                   |

## U.S. PATENT DOCUMENTS

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|                    | A65                   | US-4100981                               | 07/18/1978                     | Chaffin  |   |
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Examiner

Date Considered

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 5

of

29

Application Number

10/735,918

Filing Date

December 15, 2003

First Named Inventor

Vail III

Group Art Unit

3672

Examiner Name

Unknown

Attorney Docket Number

WEAT/0528.P1

Submission Date

July 30, 2004

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|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
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|                    | A80                   | US-3169592                               | 02/26/1965                     | Kammerer   |   |
|                    | A81                   | US-3102599                               | 09/03/1963                     | Hillburn   |   |
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|                    | A93                   | US-2216895                               | 10/08/1940                     | Stokes   |   |
|                    | A94                   | US-2060352                               | 11/11/1936                     | Stokes   |   |

## **FOREIGN PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages or<br>Relevant Figures Appear | T <sup>6</sup> |
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|                    |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |  |   |                |
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Examiner

Date Considered

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Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

6

of

29

Application Number

10/735,918

Filing Date

December 15, 2003

First Named Inventor

Vail III

Group Art Unit

3672

Examiner Name

Unknown

Attorney Docket Number

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Submission Date

July 30, 2004

## **U.S. PATENT DOCUMENTS**

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Examiner

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| Substitute for form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |   |    |    | Application Number     | 10/735,918        |
|   |   |    |    | Filing Date            | December 15, 2003 |
|   |   |    |    | First Named Inventor   | Vail III          |
|   |   |    |    | Group Art Unit         | 3672              |
|   |   |    |    | Examiner Name          | Unknown           |
|   |   |    |    | Attorney Docket Number | WEAT/0528.P1      |
| Sheet   | 7 | of | 29 | Submission Date        | July 30, 2004     |

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**INFORMATION DISCLOSURE  
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Sheet 8

of

29

Application Number

10/735,918

Filing Date

December 15, 2003

First Named Inventor

Vail III

Group Art Unit

3672

Examiner Name

Unknown

Attorney Docket Number

WEAT/0528.P1

Submission Date

July 30, 2004

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|                    | B78                   |   |                                |  |   |                |

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**INFORMATION DISCLOSURE  
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Sheet 9

of 29

Application Number 10/735,918

Filing Date December 15, 2003

First Named Inventor Vail III

Group Art Unit 3672

Examiner Name Unknown

Attorney Docket Number WEAT/0528.P1

Submission Date July 30, 2004

**NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T <sup>2</sup> |
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|   |    |    |    | Filing Date            | December 15, 2003 |
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|   |    |    |    | Examiner Name          | Unknown           |
|   |    |    |    | Attorney Docket Number | WEAT/0528.P1      |
| Sheet   | 10 | of | 29 | Submission Date        | July 30, 2004     |

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|--------------------|-----------------------|--|----------------|
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|   |    |    |    | Filing Date            | December 15, 2003 |
|   |    |    |    | First Named Inventor   | Vail III          |
|   |    |    |    | Group Art Unit         | 3672              |
|   |    |    |    | Examiner Name          | Unknown           |
|   |    |    |    | Attorney Docket Number | WEAT/0528.P1      |
| Sheet   | 11 | of | 29 | Submission Date        | July 30, 2004     |

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| *Examine<br>r Initial   |      | Document<br>Number | Issue<br>Date | Applicant(s)<br>Name | Class           | Subclass | Filing Date If<br>Appropriate |
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| Examiner  |      |                    |               |                      | Date Considered |          |                               |
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|   |    |    |    | Filing Date            | December 15, 2003 |
|   |    |    |    | First Named Inventor   | Vail III          |
|   |    |    |    | Group Art Unit         | 3672              |
|   |    |    |    | Examiner Name          | Unknown           |
|   |    |    |    | Attorney Docket Number | WEAT/0528.P1      |
| Sheet   | 12 | of | 29 | Submission Date        | July 30, 2004     |

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|   |    |    |    | Examiner Name          |  | Unknown           |  |
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|  |    |    |    | Examiner Name          |  | Unknown           |  |
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|   |    |    |    | Examiner Name          |  | Unknown           |  |
|   |    |    |    | Attorney Docket Number |  | WEAT/0528.P1      |  |
| Sheet   | 16 | of | 29 | Submission Date        |  | July 30, 2004     |  |

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|   |    |    |    | Examiner Name          | Unknown           |
|   |    |    |    | Attorney Docket Number | WEAT/0528.P1      |
| Sheet   | 19 | of | 29 | Submission Date        | July 30, 2004     |

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| *Examiner Initial |      | Document Number | Issue Date | Applicant(s) Name | Class | Subclass | Filing Date If Appropriate |
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|   |  |  |  |                        |    |                   |    |
|---|--|--|--|------------------------|----|-------------------|----|
| Substitute for form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |  |  |  | Application Number     |    | 10/735,918        |    |
|   |  |  |  | Filing Date            |    | December 15, 2003 |    |
|   |  |  |  | First Named Inventor   |    | Vail III          |    |
|   |  |  |  | Group Art Unit         |    | 3672              |    |
|   |  |  |  | Examiner Name          |    | Unknown           |    |
|   |  |  |  | Attorney Docket Number |    | WEAT/0528.P1      |    |
|   |  |  |  | Sheet                  | 20 | of                | 29 |

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| Examiner   |                 |              |                   |                       | Date Considered |                            |  |
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|   |    |    |    | Group Art Unit         | 3672              |
|   |    |    |    | Examiner Name          | Unknown           |
|   |    |    |    | Attorney Docket Number | WEAT/0528.P1      |
| Sheet   | 21 | of | 29 | Submission Date        | July 30, 2004     |

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|   |    |    |    | Examiner Name          | Unknown           |
|   |    |    |    | Attorney Docket Number | WEAT/0528.P1      |
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|   |    |    |    | Group Art Unit         |  | 3672              |  |
|   |    |    |    | Examiner Name          |  | Unknown           |  |
|   |    |    |    | Attorney Docket Number |  | WEAT/0528.P1      |  |
| Sheet   | 23 | of | 29 | Submission Date        |  | July 30, 2004     |  |

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| *Examiner<br>Initial |     | Document<br>Number | Date       | Country | Class | Subclass | Translation              |                                     |
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|                      | B80 | WO 01/12946        | 02-22-2001 | WIPO    | E21B  | 19/00    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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|   |    |    |    | Examiner Name          | Unknown           |
|   |    |    |    | Attorney Docket Number | WEAT/0528.P1      |
| Sheet   | 24 | of | 29 | Submission Date        | July 30, 2004     |

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|  |    |    |    | Attorney Docket Number | WEAT/0528.P1      |
| Sheet  | 25 | of | 29 | Submission Date        | July 30, 2004     |

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|   |    |    |    | Examiner Name          | Unknown           |
|   |    |    |    | Attorney Docket Number | WEAT/0528.P1      |
| Sheet   | 26 | of | 29 | Submission Date        | July 30, 2004     |

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|   |    |    |    |                        |                   |
|---|----|----|----|------------------------|-------------------|
| Substitute for form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |    |    |    | Application Number     | 10/735,918        |
|   |    |    |    | Filing Date            | December 15, 2003 |
|   |    |    |    | First Named Inventor   | Vail III          |
|   |    |    |    | Group Art Unit         | 3672              |
|   |    |    |    | Examiner Name          | Unknown           |
|   |    |    |    | Attorney Docket Number | WEAT/0528.P1      |
| Sheet   | 27 | of | 29 | Submission Date        | July 30, 2004     |

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|                   | C69 | Rotary Drilling, Drilling a Straight Hole, Unit II, Lesson 3, Second Edition  |
|                   | C70 | Rotary Drilling, The Bit, Unit I, Lesson 2, Third Edition   |
|                   | C71 | Rotary Drilling, Blowout Prevention, Unit III, Lesson 3, Third Edition  |
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|   |    |    |    | Attorney Docket Number | WEAT/0528.P1      |
| Sheet   | 28 | of | 29 | Submission Date        | July 30, 2004     |

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| *Examiner Initial |     | Including Author, Title, Date, Pertinent Pages, Etc.  |
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|                   | C76 | Well Servicing and Workover, Production Rig Equipment, Lesson 6, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas                      |
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|                   | C84 | Well Servicing and Workover, Well Cleanout and Repair Methods, Lesson 8, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas              |
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